JP06160-A9T5560

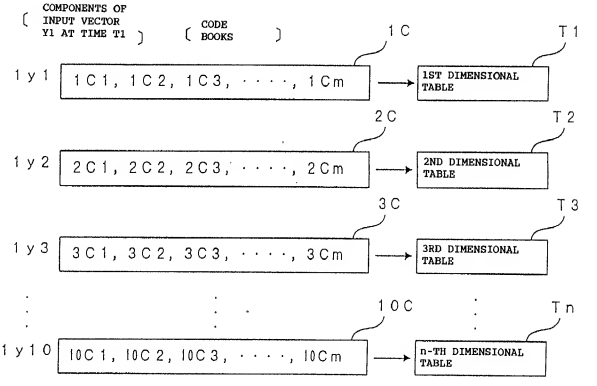
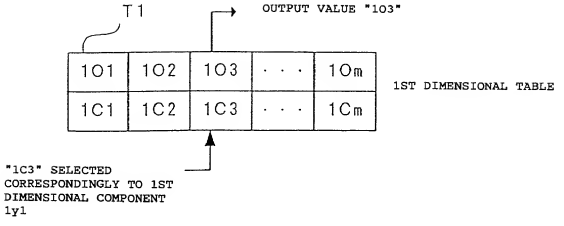
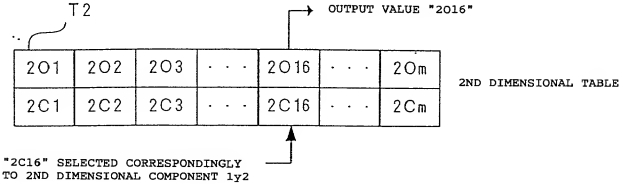


FIG. 1


T1
OUTPUT VALUE "103"
101
102
103
· · ·
10m
1C1
1C2
1C3
· · ·
1Cm
1ST DIMENSIONAL TABLE
"1C3" SELECTED CORRESPONDINGLY TO 1ST DIMENSIONAL COMPONENT 1y1

(a)


T2
OUTPUT VALUE "2016"
201
202
203
· · ·
2016
· · ·
20m
2C1
2C2
2C3
· · ·
2C16
· · ·
2Cm
2ND DIMENSIONAL TABLE
"2C16" SELECTED CORRESPONDINGLY TO 2ND DIMENSIONAL COMPONENT 1y2

(b)

FIG. 2

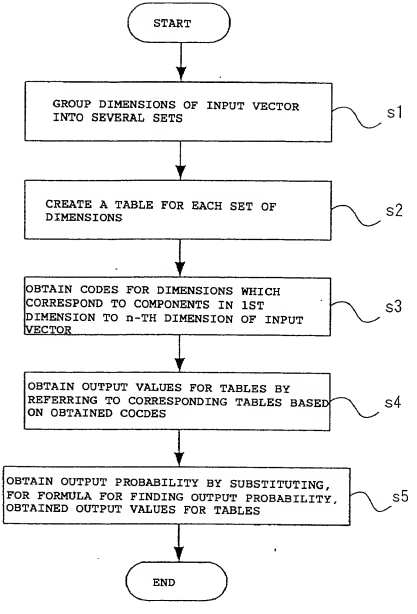

START
GROUP DIMENSIONS OF INPUT VECTOR INTO SEVERAL SETS
s1
CREATE A TABLE FOR EACH SET OF DIMENSIONS
s2
OBTAIN CODES FOR DIMENSIONS WHICH CORRESPOND TO COMPONENTS IN 1ST DIMENSION TO n-TH DIMENSION OF INPUT VECTOR
s3
OBTAIN OUTPUT VALUES FOR TABLES BY REFERRING TO CORRESPONDING TABLES BASED ON OBTAINED COCDES
s4
OBTAIN OUTPUT PROBABILITY BY SUBSTITUTING, FOR FORMULA FOR FINDING OUTPUT PROBABILITY, OBTAINED OUTPUT VALUES FOR TABLES
s5
END

FIG. 3

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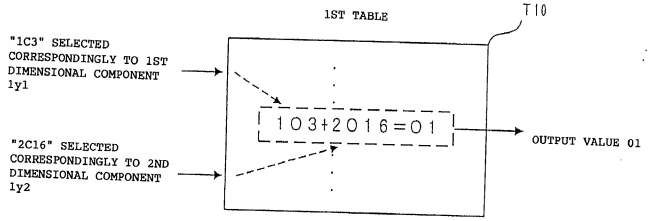

FIG. 4

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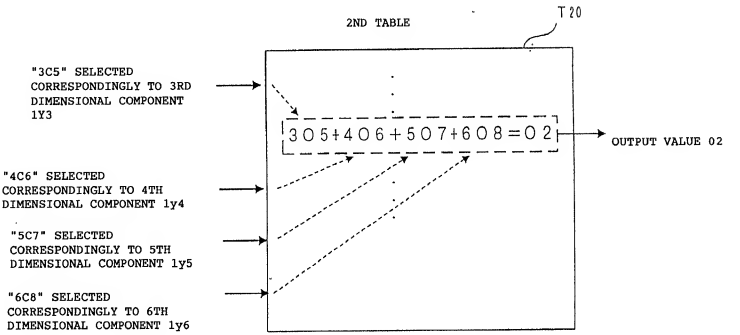

FIG. 5

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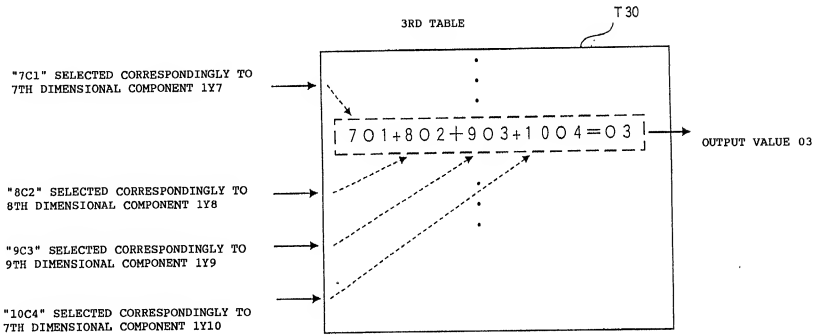

FIG. 6

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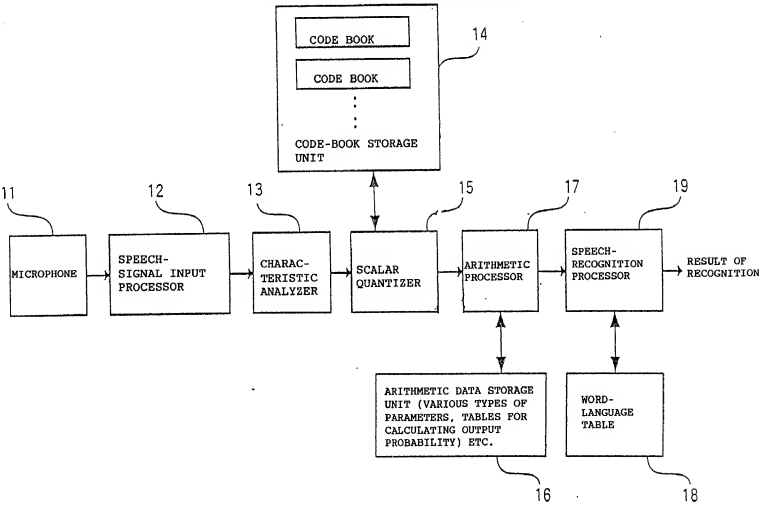

FIG. 7

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EXPRESSION 1

$$b_{ij}(Y) = \prod_{k=1}^{n} \left(\frac{1}{2\pi\sigma_{ij}(k)^2} \right)^{\frac{1}{2}} \bullet e^{-\sum_{k=1}^{n} \left[\frac{\{y_k - \mu_{ij}(k)\}^2}{2\sigma_{ij}^2(k)} \right]} \qquad (1)$$

EXPRESSION 2

$$\ell og_x b_{ij}(Y) = \underbrace{\ell og_x \left[\prod_{k=1}^{n} \left(\frac{1}{2\pi\sigma_{ij}^2(k)} \right)^{\frac{1}{2}} \right]}_{A} - \underbrace{\overbrace{\sum_{k=1}^{n} \left[\frac{\{y_k - \mu_{ij}(k)\}^2}{2\sigma_{ij}^2(k)} \right]}^{B'} \bullet \ell og_x e}_{B} \qquad (2)$$

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EXPRESSION 3

$$\ell og_{x} b_{ij}(Y) = A - \underbrace{\sum_{k=1}^{n} \overbrace{\left[\frac{\left\{ y_k - \mu_{ij}(k) \right\}^2}{2\sigma_{ij}^2(k)} \bullet Z \right]}^{B'}}_{B} \qquad (3)$$

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EXPRESSION 4

$$\ell og\ {}_{x}b_{ij}(\dot{Y}) = A - \underbrace{\sum_{k=1}^{n}\overbrace{\left[\frac{\left\{kC_{c} - \mu_{ij}(k)\right\}^{2}}{2\sigma_{ij}^{2}(k)} \bullet Z\right]}^{D}}_{E} \qquad (4)$$

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EXPRESSION 5

$$W_{ijm} \bullet b_m(Y) = W_{ijm} \bullet \prod_{k=1}^{n} \left(\frac{1}{2\pi\sigma_m^2(k)} \right)^{\frac{1}{2}} \bullet e^{-\sum_{k=1}^{n} \left[\frac{\{y_k - \mu_m(k)\}^2}{2\sigma_m^2(k)} \right]} \qquad (5)$$

EXPRESSION 6

$$\ell og_x W_{ijm} \bullet b_m$$

$$= \ell og_x W_{ijm} + \underbrace{\ell og_x \left[\prod_{k=1}^{n} \left(\frac{1}{2\pi\sigma_m^2(k)} \right)^{\frac{1}{2}} \right]}_{A} - \underbrace{\overbrace{\sum_{k=1}^{n} \left[\frac{\{y_k - \mu_m(k)\}^2}{2\sigma_m^2(k)} \right]}^{B'} \bullet \ell og_x e}_{B} \qquad (6)$$

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EXPRESSION 7

$$\ell og_{x}W_{ijm} \bullet b_{m} = \ell og_{x}W_{ijm} + A - \overbrace{\underbrace{\sum_{k=1}^{n}\left[\frac{\{y_{k} - \mu_{m}(k)\}^{2}}{2\sigma_{m}^{2}(k)} \bullet Z\right]}_{B}}^{B'} \quad (7)$$

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EXPRESSION 8

$$\ell og_x W_{ijm} \bullet b_m = \ell og_x W_{ijm} + A - \overbrace{\underbrace{\sum_{k=1}^{n}\left[\frac{\{kC_c - \mu_m(k)\}^2}{2\sigma_m^2(k)} \bullet Z\right]}_{E}}^{D} \qquad (8)$$